## REPORT DOCUMENTATION PAGE

Public Reporting burden for this collection of information is estimated to average 1 hour per response, including the

AFRL-SR-BL-TR-00-

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maintaining the data needed, and completing and reviewing the including suggestions for reducing this burden, to Washington	collection of information. Send comment regarding	000	ation,  Arlington,	
VA 22202-4302, and to the Office of Management and Budge	Panerwork Reduction Project (0704-0188 ) Washington	DC 20503		
1. AGENCY USE ONLY (Leave Blank)	2. REPORT DATE 10/9/00	3. REPORT TYPE AND DATES COVERE Final Tech Report 9/15/96 – 9/14		
4. TITLE AND SUBTITLE	10,700	5. FUNDING NUMBERS	+170	
	Intical Code Division			
Testbed for Multi-Wavelength Optical Code Division		F49620-96-1-0453		
Multiplexing Based on Passive Linear Unitary Filters				
6. AUTHOR(S)				
Eli Yablonovitch				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)		8. PERFORMING ORGANIZATION		
University of California, Los Angeles		REPORT NUMBER		
Electrical Engineering Dept.		KD84Fintech-1		
Los Angeles, CA 90095-1594				
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)		10. SPONSORING / MONITORING		
A FOOD /DIV A		AGENCY REPORT NUMBER		
AFOSR/PKA				
110 Dunca Avenue Room B				
Bolling AFB DC 20332-805	0			
11. SUPPLEMENTARY NOTES				
The views, opinions and/or findings contained in this report are those of the author(s) and should not be construed as			trued as	
an official AFOSR position, policy	or decision, unless so designated b	y the documentation.		
12 a. DISTRIBUTION / AVAILABILITY STATEM	ENT	12 b. DISTRIBUTION CODE		
Approved for public release; distribution unlimited			•	
13. ABSTRACT (Maximum 200 words)				
The handwidth demanded for	r Internet traffic has been consta	ntly growing in response to more ba	ndwidth	
The bandwidth demanded for Internet traffic has been constantly growing in response to more bandwidth hungry applications such as high-resolution motion picture transmission. An optical fiber has about 10 tera-bits				
	•	_	orto	
per second (Tbps) available bandwidth and is the ideal medium to link tomorrow's bandwidth hungry				
applications.  The equipment purchased under this grant has permitted UCLA to purchase a number of broad-band				
optical components, including especially some unique code division mulitiplexing filters that permitted us to			us to	
demonstrate optical code division multiplexing of a multi-wavelength signal source.				

17. SECURITY CLASSIFICATION

UNCLASSIFIED

18. SECURITY CLASSIFICATION

UNCLASSIFIED

ON THIS PAGE

14. SUBJECT TERMS

20. LIMITATION OF ABSTRACT

15. NUMBER OF PAGES

16. PRICE CODE

19. SECURITY CLASSIFICATION

UNCLASSIFIED

OF ABSTRACT

Title: Testbed for Multi-Wavelength Optical Code Division Multiplexing Based on Passive Linear Unitary Filters Award number: F49620-96-1-0453, PI: Eli Yablonovitch, PM: Alang Craig

Item	Vendor	Price
MC Modular Multi-channel Tunics	Photonetics Inc.	\$119,178.92
Temperature Controller	Newport Corp	\$2,115.29
Microblck Stage	Meeles Griot	\$4,094.38
Optical fibers	Newport Corp	\$1,842.77
DAT Drive	Fry's Electronics	\$1,485.16
Digital Oscilloscope	ITC Electronics	\$1,061.92
Rotator/Polarizor	Optics for Research	\$2,979.81
Laptop system (ethernet etc.)	Fry's Electronics	\$4,436.08
Dell Computer	Dell Marketing LP	\$2,217.15
CaibeSystem parts	Angeles Valve & Fitting Co.	\$763.23
High vacuum pump	Precision Instruments	\$1,623.75
Dell Optiflex Computer	Dell Marketing LP	\$7,658.54
TP-IB Frequency Tripler	Uniwave Technology Inc.	\$16,368.69
IR Camera	Electrophysics	\$6,038.61
MilleniaX-P SolidState Laser	Spectraphysics	\$32,232.05
Polarization splotters	JDS Fitel Inc.	\$8,321.04
Power supplies	Hewlette Packard	\$5,222.21
Measurement Device	Newport Corp	\$10,847.86
Laserjet 5M Color	Future Computing Services	\$5,144.93
Tunable Diode Laser System	New Focus Inc.	\$29,177.88
DSP Lock-in Amplifier	Stanford Research	\$4,008.79
Lightwave Multimeter System	Hewlette Packard	\$7,756.00
Computer Systems	MicronElectronics	\$20,437.44
3-Port Circulator	Uniphase Telecom Products	\$6,500.58
Interferometer	Photonic Integration Researc	t \$24,272.50
Intel Dual Pentium	MicronElectronics	\$6,492.76
Toshiba Tecra 730X	Micro World	\$7,350.19
HP Lightwave Clock/Data receiver	Hewlette Packard	\$16,021.00
Laser Printer	KIS Computer Center	\$4,316.30
Millenia Pro Plus computer	Micron Electronics	\$10,064.42
SCANNING MONO-CHROMETER	Jobin Ivan Inc (I.S.A.)	\$5,000.25
DSP Lock-in-amplifier, Optical Chopper	Stanford Research	\$4,764.50
Total		\$379,795.00

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